Appendix C Radiocarbon Dating Analysis



4985 S.W. 74 COURT MIAMI, FLORIDA, USA 33155 PH: 305-667-5167 FAX:305-663-0964 beta@radiocarbon.com

REPORT OF RADIOCARBON DATING ANALYSES

Dr. Hallett H. Hammatt/Jon Tulchin

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Cultural Surveys Hawaii

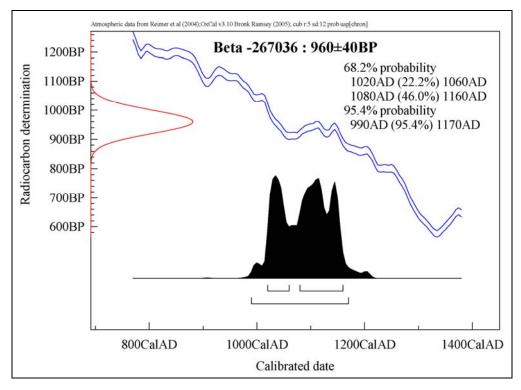
Material Received: 10/23/2009

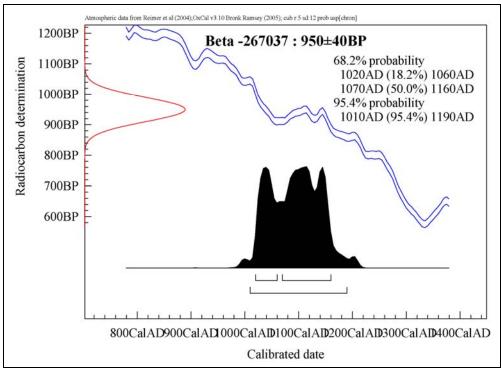
Sample Data	Measured Radiocarbon Age	13C/12C Ratio	Conventional Radiocarbon Age(*)
Beta - 267036 SAMPLE : WAIPAHUKAI01 ANALYSIS : AMS-Standard deliv		-22.9 o/oo	960 +/- 40 BP
MATERIAL/PRETREATMENT 2 SIGMA CALIBRATION :	cal AD 1010 to 1170 (Cal BP 940 to	780)	
Beta - 267037 SAMPLE: WAIPAHUKAI02	930 +/- 40 BP	-23.6 o/oo	950 +/- 40 BP
ANALYSIS: AMS-Standard deli-	very		

MATERIAL/PRETREATMENT: (organic sediment): acid washes 2 SIGMA CALIBRATION: Cal AD 1010 to 1170 (Cal BP 940 to 780)

Dates are reported as RCYBP (radiocarbon years before present, "present" = AD 1950). By international convention, the modern reference standard was 95% the 14C activity of the National Institute of Standards and Technology (NIST) Oxalic Acid (SRM 4990C) and calculated using the Libby 14C half-life (5568 years). Quoted errors represent 1 relative standard deviation statistics (68% probability) counting errors based on the combined measurements of the sample, background, and modern reference standards. Measured 13C/12C ratios (delta 13C) were calculated relative to the PDB-1 standard.

The Conventional Radiocarbon Age represents the Measured Radiocarbon Age corrected for isotopic fractionation, calculated using the delta 13C. On rare occasion where the Conventional Radiocarbon Age was calculated using an assumed delta 13C, the ratio and the Conventional Radiocarbon Age will be followed by ***. The Conventional Radiocarbon Age is not calendar calibrated. When available, the Calendar Calibrated result is calculated from the Conventional Radiocarbon Age and is listed as the *Two Sigma Calibrated Result* for each sample.





OxCal Calibration Results